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(54) Title: MOTION COMPENSATED RECONSTRUCTION TECHNIQUE

(57) Abstract: The long scan time in PET imaging may lead to a significant loss of resolution, due to patient or organ motion. According to the present invention, the distortion or motion may be compensated by performing a forward-projection, and/or back-projection of the intermediate image on the basis of a motion field describing a motion and/or distortion of the object of interest.

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